

M A T E R I A L S A F E T Y D A T A S H E E T

Engine Flush Solution

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PRODUCT NAME: Engine Flush Solution
PRODUCT CODE: 333333.

HMIS CODES: H F R P
1 1 0 X

===== **SECTION I - MANUFACTURER IDENTIFICATION** =====

MANUFACTURER'S NAME: Sampson Coatings, Incorporated
ADDRESS : 1900 Ellen Road
Richmond, Virginia 23230

EMERGENCY PHONE : 800-424-9300 **DATE PRINTED :** 1/29/2007
INFORMATION PHONE : 804-359-5011 **PREPARER :** TECHNICAL DEPARTMENT

===== **SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION** =====

COMPONENTS (Non Hazardous)	CAS NUMBER	VAPOR PRESSURE MM HG @ TEMP		WEIGHT PERCENT
Severely Hydrotreated Heavy Naphthenic Distillate	64742-52-5	<0.01	68 deg F	70
Biodiesel (Soybean derived) For Oil Mist: PEL/TLV: 5mg/M3; STEL: 10 mg/M3	67784-80-9	< 1.0	162 F	29

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

===== **SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS** =====

BOILING RANGE: 465 F - 600 F **SPECIFIC GRAVITY (H2O=1):** .89
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER
COATING V.O.C.: .01 lb/gl **MATERIAL V.O.C.:** 0.0 lb/gl
SOLUBILITY IN WATER: Non Soluble
APPEARANCE AND ODOR: Clear to slight amber colored liquid with mineral oil type odor.

===== **SECTION IV - FIRE AND EXPLOSION HAZARD DATA** =====

FLASH POINT: >320F **METHOD USED:** COC ASTM D92
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A **UPPER:** N/A

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending upon size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

SPECIAL FIREFIGHTING PROCEDURES

Respiratory equipment should be worn to avoid inhalation of concentrated vapors. Water should not be used except as fog to keep nearby containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Slightly combustible. OSHS/NFPA Class IIIB Combustible Liquid. If heated above its flash point will release flammable vapors, which can burn in the open or, be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below oils normal flash point. Keep away from extreme heat or open flame.

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===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers such as liquid chlorine, concentrated oxygen, sodium hypo chlorite, etc. as this presents a serious explosion hazard.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

May form carbon monoxide, carbon dioxide, and other toxins in small quantities.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====

ACUTE INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

ACUTE EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

May cause slight to moderate irritation. If splashed into eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists call physician.

ACUTE SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated skin contact is not likely to cause significant irritation. Over exposure however may result in dermatitis, which is characterized by dryness, chapping and redness. In case of skin contact, remove any contaminated clothing and wash skin with soap and water.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Product is practically non-toxic. Do not induce vomiting. In general, no medical treatment is necessary unless large amounts are ingested in which case you should seek medical attention.

CHRONIC HEALTH HAZARDS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks, which may vary from person to person. As a precaution exposure to liquids, vapors, mists or fumes should be minimized.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Personnel with pre-existing skin disorders should avoid contact with this product.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air, call physician, and begin resuscitation if breathing is irregular. **EYES:** Flush with clean water for 15 minutes and seek medical attention. **SKIN:** Flush with water, remove contaminated clothing, wash with soap and water, if irritation persists seek medical attention. **INGESTION:** DO NOT induce vomiting, contact a physician, medical facility, or poison control center for advise on whether to induce vomiting. If individual is drowsy or unconscious, do not give anything by mouth. Place individual on their side with head down. Seek medical attention.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

CLEAN WATER ACT / OIL POLLUTION ACT

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center. Try to recover product. Add sand, earth or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding.

WASTE DISPOSAL METHOD

Dispose of in accordance with all applicable local, county, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Use non-sparking utensils when handling this material. Read cautions on MSDS before use. Avoid hot metal surface. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.
KEEP OUT OF THE REACH OF CHILDREN !

OTHER PRECAUTIONS

Tools used with this material should be made from aluminum, brass or copper. Plastic utensils should not be used. Use proper grounding on equipment and containers to avoid static sparks and possible vapor ignition.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

Normally not required with adequate ventilation. If you experience eye watering, headache, or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

VENTILATION

Use general mechanical ventilation or local exhaust when possible. Ventilation equipment must be spark and explosion proof. Where mechanical ventilation does not keep vapor and mist exposure below applicable levels, respiratory protective equipment should be used and maintained.

PROTECTIVE GLOVES

Avoid prolonged and repeated skin contact. If this cannot be avoided then wear protective impervious gloves such as polyvinyl chloride, neoprene, nitrile, polyvinyl alcohol or viton.

EYE PROTECTION

Use chemical safety glasses, goggles, and face shields for eye protection

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Use impermeable aprons and protective clothing whenever possible to prevent skin contact.

WORK/HYGIENIC PRACTICES

Eye wash stations and safety showers are recommended in case of splashes or accidental contact

===== SECTION IX - DISCLAIMER =====

Sampson Coatings believes the data contained in this Material Safety Data Sheet to be accurate but is not warranted to be whether originating with the company or not. Recipients should confirm that the information is current, applicable, and suitable to their circumstances. Sampson Coatings, Inc. and its agents disclaim all liability for any actions taken